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insert members

Related Art

Please replace the paragraph at page 2, lines 11-13, with
the following heading and paragraph:

SUMMARY OF THE INVENTION

Therefore, the object of the invention is to provide an extruder die head of the class described in the introductory part. This extruder die head facilitates the extrusion of plastic tubes with arbitrary layers, but is characterized by a significantly shorter construction height.

Please replace the paragraph at page 3, line 16, with the following heading and paragraphs:

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout.

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One embodiment of the invention is explained in detail below with reference to the drawings.

DESCRIPTION OF THE DRAWINGS

~~Please replace~~ the paragraph at page 4, lines 3-5, with
the following heading and paragraph:

DESCRIPTION OF THE INVENTION

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Further scope of applicability of the present invention will become apparent from the detailed description given hereinafter. However, it should be understood that the detailed description and specific examples, while indicating preferred embodiments of the invention, are given by way of illustration only, since various changes and modifications within the spirit and scope of the invention will become apparent to those skilled in the art from this detailed description.

Figure 1 is a schematic drawing of a sectional view of a blown film die head, where five annular or conical channels, which feed different types of polymer melts, empty into a central annular channel 1.

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~~Please replace~~ the paragraph beginning at page 4, line 21, through page 5, ~~line 6~~, with the following rewritten paragraph:

Mounted on the conical rings 8, 10 are the conical rings 9, 11, which define with the conical external shell areas of the rings 8, 9 the conical melt feed channels, which in turn empty into the central annular channel. The external shell areas of the rings 8, 9 are spiral grooves, whose height tapers off toward the top. The bottom grooves with the greatest depth empty into the melt

feeding channels 15, 16. Mounted on the top conical inserts 9, 11 are inside and outside holding rings 17, 18, between which the central annular channel 1 is defined with an annular outlet slit 19. An easy method for assembling the blown film die head together with the bottom cover 2 is to connect the rings 17, 18 with tightening screws.

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The inside rings and the bottom cover 2 exhibit aligned axial passages, which from a passage channel, which houses the lines to feed in and exhaust the blowing air for the blown film die head. The blown film die head, shown in Figure 2, exhibits in principle the same construction. The distinction between it and the blown film die head, depicted in Figure 1, lies only in the fact that between the inside and outside conical rings 8, 10 and the top inside and outside rings 9, 11 there are other inside conical rings 21, 22 and other outside conical rings 23, 24, which are designed analogously to the rings 8, 10. This arrangement of the additional conical rings makes it possible to feed, not five melts, but nine different melts with the blown film die head of Figure 2 for the purpose of producing a nine layered plastic tube.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and, accordingly, all suitable